



I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: August 22, 2007

Signature:

*Kristen Moussalli*  
(Kristen Moussalli)

AP12 Rec'd PCT/PTO 24 AUG 2007

Docket No.: 0113507.122US1 / SHI-012  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Atsushi MIYAJIMA et al. Confirmation No.: 3869  
Application No.: 10/581,393 Art Unit: N/A  
Filed: June 2, 2006 Examiner: Not Yet Assigned  
Title: METHODS FOR PRODUCING HEMATOPOIETIC STEM CELLS OR  
VASCULAR ENDOTHELIAL PRECURSOR CELLS

MS Missing Parts  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION**

Dear Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371, mailed January 29, 2007, Applicant respectfully submits a Combined Declaration and Power of Attorney, a Petition for Extension of Time, and a copy of the Notice.

Please charge our Deposit Account No. 08-0219 in the amount of \$2,290.00 covering the required fees. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 08-0219, under Order No. 0113507.00122US1.

Respectfully submitted,

Dated: August 22, 2007

*Ann-Louise Kerner*

Ann-Louise Kerner, Ph.D.

Registration No.: 33,523

Attorney for Applicant(s)

08/28/2007 GFREY1  
02 FC:1617

00000132 080219 10581393

130.00 DA

Wilmer Cutler Pickering Hale and Dorr LLP  
60 State Street  
Boston, Massachusetts 02109  
(617) 526-6000 (telephone)  
(617) 526-5000 (facsimile)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22303-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/581,393	FIRST NAMED APPLICANT Atsushi Miyajima	DOCKET NO. 014536780122US1/SHI-012
INTERNATIONAL APPLICATION NO. PCT/JP04/16470		
I.A. FILING DATE 10/29/2004	PRIORITY DATE 12/04/2003	

Ann-Louise Kerner  
 Wilmer Cutler Pickering Hale and Dorr  
 60 State Street  
 Boston, MA 02109

CONFIRMATION NO. 3869

371 FORMALITIES LETTER



\*OC000000022208902\*

Date Mailed: 01/29/2007

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 06/02/2006
- English Translation of the IA filed on 06/02/2006
- Copy of the International Search Report filed on 06/02/2006
- Preliminary Amendments filed on 06/02/2006
- Information Disclosure Statements filed on 09/11/2006
- U.S. Basic National Fees filed on 06/02/2006
- Priority Documents filed on 06/02/2006

**WILMER CUTLER PICKERING  
 HALE and DORR LLP DOCKETING**

RE: 113507.122 US1  
 Action Date: 3/29/07  
 Action to be Taken: Missing Requirements  
 Docketed By: EK On: 11/3/11

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 Surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://portal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

KAREN M WILLIAMS

Telephone: (703) 308-9140 EXT 213

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/581,393	PCT/JP04/16470	0113507.00122US1/SHI-012

FORM PCT/DO/EO/905 (371 Formalities Notice)



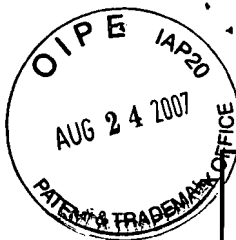
PTO/SB/21 (04-07)  
Approved for use through 09/30/2007. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/581,393-Conf. #3869
	Filing Date	June 2, 2006
	First Named Inventor	Atsushi MIYAJIMA
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	0113507.122US1 / SHI-012

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input checked="" type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input checked="" type="checkbox"/> Reply to Missing Parts/ Incomplete Application  <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____  <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below):  -Part 2 Copy of Notice  -Combined Declaration/Power of Attorney  -Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	WILMER CUTLER PICKERING HALE AND DORR LLP	
Signature		
Printed name	Ann-Louise Kerner, Ph.D.	
Date	August 22, 2007	Reg. No. 33,523

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
Dated: August 22, 2007	Signature:  (Kristen Moussalli)



Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

## FEE TRANSMITTAL For FY 2007

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 2,290.00

### Complete if Known

Application Number	10/581,393-Conf. #3869
Filing Date	June 2, 2006
First Named Inventor	Atsushi MIYAJIMA
Examiner Name	Not Yet Assigned
Art Unit	N/A
Attorney Docket No.	0113507.00122US1 / SHI-012

### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 08-0219 Deposit Account Name: Wilmer Cutler Pickering Hale and

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

#### 2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims Extra Claims Fee (\$) Fee Paid (\$)

- = x =

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$) Fee Paid (\$)

- = x =

HP = highest number of independent claims paid for, if greater than 3.

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)  
- 100 = /50 = (round up to a whole number) x =

#### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)  
Other (e.g., late filing surcharge): 1255 Extension for response within fifth month 2,160.00  
1051 Surcharge-Late oath or declaration 130.00

#### SUBMITTED BY

Signature	<i>Ann-Louise Kerner</i>	Registration No. (Attorney/Agent)	33,523	Telephone	(617) 526-6000
Name (Print/Type)	Ann-Louise Kerner, Ph.D.	Date	August 22, 2007		

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: August 22, 2007

Signature: *Kristen Moussalli* (Kristen Moussalli)